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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/736,644	12/17/2003	Hiroyuki Ogi	118118	3825	
25944 75	7590 07/21/2005		EXAM	EXAMINER	
OLIFF & BERRIDGE, PLC P.O. BOX 19928 ALEXANDRIA, VA 22320			LE, DANG D		
			ART UNIT	PAPER NUMBER	
	,		2834		
			DATE MAILED: 07/21/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

Cm	
, 1.	

	Application No.	Applicant(s)					
	10/736,644	OGI, HIROYUKI					
Office Action Summary	Examiner	Art Unit					
	Dang D. Le	2834					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute - Any reply received by the Office later than three months after the mailing - earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be timed within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).					
Status							
1)⊠ Responsive to communication(s) filed on 12 M	1) Responsive to communication(s) filed on 12 May 2005.						
2a)⊠ This action is FINAL . 2b)☐ This	· · · · · · · · · · · · · · · · · · ·						
3) Since this application is in condition for allowar	nce except for formal matters, pro	secution as to the merits is					
closed in accordance with the practice under E	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4)⊠ Claim(s) <u>1-8</u> is/are pending in the application.	4) Claim(s) 1-8 is/are pending in the application.						
4a) Of the above claim(s) is/are withdraw	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-8</u> is/are rejected.	6)⊠ Claim(s) <u>1-8</u> is/are rejected.						
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or	r election requirement.						
Application Papers							
9) The specification is objected to by the Examine	r.						
10)⊠ The drawing(s) filed on <u>5/12/05</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No3. Copies of the certified copies of the priority documents have been received in this National Stage							
·	application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.							
	,						
Attachment/o							
Attachment(s) 1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date							
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal P. 6) Other:	atent Application (PTO-152)					
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DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to claims 1-8 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1 and 4 are rejected under 35 U.S.C. 102(b) as being anticipated by Roger et al. (FR 2752110).

Regarding claims 1 and 4, Roger et al. shows an ac generator for a vehicle comprising:

- A rotor (not shown) for providing a magnetic field;
- A stator (not shown), disposed around said rotor, said stator having a stator core in which a plurality of phase-windings is mounted to generate electromotive force when the magnetic field is supplied; and
- A rectifying unit (B)) formed by a bridge circuit which includes positive
 electrode side rectifying elements and negative electrode side rectifying
 elements respectively connected to the plurality of phase-windings (A);

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- Wherein one of the positive electrode side rectifying element and negative electrode side rectifying element connected to at least a portion of the plurality of phase-windings is constituted of a single element (bottom portion) and the remainders are constituted of parallel connected two elements (top portion) that equally divide current flowing therethrough.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 2 and 3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Roger et al. in view of JP 648872.

Regarding claims 2 and 3, Roger et al. shows all of the limitations of the claimed invention except for the use of zener diodes or the combination of zener diodes and normal diodes.

JP 648872 uses zener diodes or the combination of zener diodes and normal diodes for the purpose of suppressing fluctuation of output voltage.

Since Roger et al. and JP 648872 are all from the same field of endeavor; the purpose disclosed by one inventor would have been recognized in the pertinent art of the others.

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It would have been obvious at the time the invention was made to a person having ordinary skill in the art to use zener diodes or the combination of zener diodes and normal diodes as taught by JP 648872for the purpose discussed above.

6. Claims 5-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Roger et al. in view of Ooiwa et al. (6,184,602) and Drabik (3,739,209).

Regarding claims 5-8, Roger et al. shows all of the limitations of the claimed invention except for the small and large diameters and the plurality of heat sinks.

Ooiwa et al. shows the heat sink with small and larger diameter (501and 503, Figure 1) for the purpose of reducing more heat.

Drabik shows the plurality of heat sinks (42, 44, 46) also for the purpose of reducing more heat.

Since Roger et al., Ooiwa et al., Drabik are all from the same field of endeavor; the purpose disclosed by one inventor would have been recognized in the pertinent art of the others.

It would have been obvious at the time the invention was made to a person having ordinary skill in the art to make the heat sinks with different diameter and to use many heat sinks as respectively taught by Ooiwa et al. and Drabik for the purpose discussed above.

Conclusion

7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP

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§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Information on How to Contact USPTO

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dang D Le whose telephone number is (571) 272-2027. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren Schuberg can be reached on (571) 272-2044. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

7/19/05

DANG LE DRIMARY EXAMINER



FIG. 7

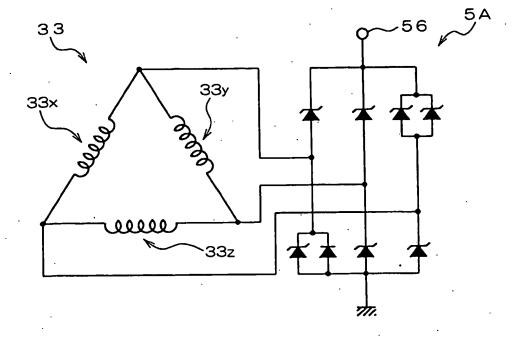


FIG. 11

